

5

CLAIMS

1. Interfacing module for coupling at least one telecommunication device to a local area network LAN, wherein said module (2) contains means for converting reciprocally data from a LAN compatible protocol into a dedicated protocol adapted for long distance line transmission and identical to the protocol used by the concerned telecommunication device(s) (1) or at least compatible with it.
2. Interfacing module according to claim 1, characterized in that said module (2) is physically adapted to be mounted on or in, or to be inserted by engagement into the structure of a telecommunication device (1) provided with corresponding receiving means.
3. Interfacing module according to anyone of claims 1 and 2, characterized in that said dedicated protocol is suitable for transmission over a distance of several hundred meters, preferably over 800 to 1200 m, depending on the type of the line.
4. Interfacing module according to anyone of claims 1 to 3, characterized in that it consists of an internet protocol transceiver having approximately a plate or board like outside shape.
5. Interfacing module according to anyone of claims 1 to 4, characterized in that it is connected to several telecommunication devices (1).
6. Telecommunication device, in particular an internet protocol based telecommunication device, connected to a local area network via an adapted link, characterized in that it is composed of a telephone set (3) and an interfacing module (2) according to anyone of claims 1 to 5, said device (1) being able to work in two different physical



configurations, i.e. a compact configuration wherein the interfacing module (2) is included or integrated into the telephone set (3) and an extended configuration wherein the interfacing module (2) is installed remotely from said telephone set (3) and linked to the latter by an adapted transmission line (4).

- 5
7. Telecommunication device, in particular an internet protocol based telecommunication device, connected to a local area network via an adapted link, characterized in that said telecommunication device (1) comprises an interfacing module (2) detachably mounted on or into the structure of said device (1), linked for data transmission to said device (1) and to said local area network LAN (5) and able to convert data from a LAN compatible protocol into a dedicated protocol compatible with a long distance line transmission, and vice versa.
- 10
- 15
8. Telecommunication device according to claim 7, wherein the telecommunication device (1) consists of an internet protocol phone composed of a telephone set (3) using a dedicated transmitting protocol and an interfacing module (2) forming a transceiver able to convert data from the internet protocol into the dedicated transmitting protocol and vice versa.
- 20